App.F.IX-4

1925-6 File No. 151-25

Previous References Genl ;

Serial Nos. 1

Later references.

Gen 66-26 (12) preserve

(7)

GENERAL AND REVENUE SECRETARIAT.

Serial Nos. nil

Part B for May 26

SUBJECT

Note on the existence and treatment of Coffee in the Nanjangud taluk.

Rubbaiyya

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GENERAL AND REVENUE SECRETARIAT.

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NOTES.

File No. 151/2

FILE HEADING.

Note on the existence and treatment of Copper ore in the Wanjangyud Taluk

From Mr. D. McLean

No. C/181/25-26 Dated 13.5.26 Received

Diary No. 6094	Enclos. /	Spare Copies.	Serial No.

BRIEF ABSTRACT OF LETTER.

Submits a note on the existence of Copper ore in the Wanjangyud Taluk

NOTES AND ORDERS.

NOTES—First Sheet.

WD 1881—GPE—30,000—1-8-21

D 6494

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Submitted to His Highness.

I beg to submit for His Highness's gracious perusal a note which I have obtained from the Officiating Director of Geology on the existence and the possible treatment of copper ore in the Nanjangud Taluk.

Mirza M. Ismail

Bangalore,
17th May 1926.

TSS:

GEN. &
21 MAY 1926
INDUSTRIES & COMMERCE
BRANCH.

What has become of the
application by messrs MacCarthy
Scharberg & Prospecting
license on Carrowreagh
Nangumgarb

GRm
21.5.26

Ent 79-25 21/5

Record of Cases submitted for the Orders of His Highness the Maharaja.

Subject.

Note on the existence and the possible treatment of copper ore in the Nanjangud Taluk.

Order.

~~KRW~~

19/5/26

C. Ley

M — 21/5 —

GEN. & REV. SECTION
21 MAY 1926
INDUSTRIES & COMMERCE BRANCH.

No. C. 18
25-26 Enc: Geol note on copper ore.

(1) (4)

GOVERNMENT OF MYSORE

SECY. SECTION D 6094

MYSORE GEOLOGICAL DEPARTMENT.

Camp Kadakola,
Bangalore, 13th May 1926.

Dear sir,

In accordance with your personal instructions, I beg to submit herewith a note on Copper ore in the Nanjangud Taluk which contains information on the subject, as far as available at present.

Yours sincerely,

A. M. Ismail

Amin-ul-Mulk Mirza.M.Ismail,Esquire,B.A.,
C.I.E., O.B.E.,
Dewan of Mysore,
Bangalore.

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1/6

A NOTE ON COPPER ORE
in the
NANJANGUD TALUK.

Locality and holding :-

The area where copper ore has been found lies at a distance of about 9 miles in a direction of a few degrees to the north of East of the Town of Nanjangud and about a mile 10° north of East of the village of Swanahalli in the Nanjangud Taluk.

2. A Prospecting License for the area was held by Mr. H.J.E. MacCarthy for 6 years from 22-12-1913 to 21-12-1919 and for one year by Mr.V. Sundaramurthy Mudaliar from 10-11-1921 to 10-11-1922. Recently in March 1926 Mr. MacCarthy has again applied for a Prospecting License over the same area conjointly with Mr. C.W.Schomburg and the application is pending before the Government for disposal.

The associated rocks :-

3. The country consists generally of decomposed gneiss, striking about 10° east of North and dipping about 50° to 70°, usually to the east. The gneiss is traversed in places by a number of pegmatite veins while runs of hornblendic rocks are well seen in the midst of the gneiss. Black cotton soil prevails all round this locality.

4. In an east west nulla, where the indications of green copper carbonate were first observed, a few trenches and some shafts were sunk by the first prospectors. The matrix rock observed in the old workings was a dark coloured basic dyke, a few yards in width, highly crushed, jointed and largely weathered and decomposed. The supposed lode, as reported in 1915, was noticed to consist of erratically distributed thin runs and patches of reddish brown and dark brown clayey material containing in places green stains or encrustations of copper carbonate. This lode may probably be a part of the weathered

and decomposed dyke.

Analysis:-

5. When the area was worked by Mr. MacCarthy, some samples were analysed; a piece of gneiss gave 0.25% of copper, a greenish -grey sample gave 9% of copper and a dark brown ferruginous ore containing green carbonate and red oxide gave 24.32% of copper with 18 dwts. 15 grs. of silver.

Three samples obtained recently from the old stacks lying on the block gave the following results on analysis :-

(1) Copper.....5.55% (probably oxide)

(2) Copper.....22.53% (chiefly carbonate with a small amount of sulphate)

(3) Copper.....26.10% (.....do.....do.....)

6. Output :-

Mr. MacCarthy reported to have extracted one ton of ore and Mr. Sundaramurty Mudaliar reported to have won 40 tons of ore; but none of them exported any ore or made use of it in any way.

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REMARKS.

7. Almost all the old shafts and trenches have been filled up; an old incline remains now in a ruined condition running at an angle of about 45° on the south bank of the nulla, while two deep inaccessible trenches (one 44 feet and the other 49 feet in depth) still exist about a furlong off to the south of the nulla.

8. It is necessary that deep prospecting should be done to find out if the copper-bearing beds go down deeper and how they behave underground at greater depths. If the present applicants are granted the License by the Government, they intend to sink deep shafts to examine the nature of the ore-bodies, their quality and extent and thereby prove the deposit. When the existence of the deposit is successfully proved, the treatment of the ore has

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to be then considered.

9 It has been found possible in other places to win ores containing 4 to 5% of metallic copper and extract the metal profitably, provided that certain other facilities such as fuel, power etc., were conveniently available. To export raw ores containing about 5% of metallic copper may not be a paying proposition as so much as about 95% of foreign and useless material has to be transported and exported at heavy expenses. If necessary facilities for a small smelting and refining plant, such as fuel and electric power etc. are available at reasonable rates, it would be advisable to treat the ore within the State as thereby an indigenous industry would be started to the advantage of the country.

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A. M. Sen

Offg: Director,
Mysore Geological Department.